

## **Annual Report AY - 2019-2020**

Government College of Engineering, Salem-11, was founded in 1966 as a part of 3rd Five year plan by the Government of Tamilnadu. The Institute, a temple of excellence in Technical Education, was the third Government Engineering College to be started. It is located on a 162 hectares site surrounded by greenish natural environment. The first batch of students were admitted for the academic year 1966-1967. Since then, the institution has been consistently upgrading itself for the growing needs of the technical education. The institution currently offers 6 Under Graduate and 6 Post Graduate programmes. All the Departments have been granted recognition for guiding research work, leading to Ph.D. under the Anna University, Chennai. Our Institution is the QIP centre, recognized by AICTE for doing research leading to Ph.D. in Mechanical, Civil, Electrical and Electronics Engineering branches.

The institution has a vision to mould the students not only as an excellent Engineers in the field of Science and Technology, but also as a good citizen of our country. The commitment of the institution is to produce comprehensive knowledge seekers and humane individuals, capable of building a strong and developed nation. The institution also has its mission to impart updated technical education and knowledge to the budding engineers.

Government College of Engineering, Salem, is an Autonomous institution, approved by AICTE and UGC. It is also affiliated to Anna University, Chennai. The institution has a well-defined organization structure and a board of governors for its effective functioning. The Board of Governors functions with the support of the Chairman of Board of Governors as well as its members. The members of the governing body are from the institution, various industries and the university. The senior Professors of the institution would represent the college in the governing body. It also includes the State Government Nominees with the Principal as the member secretary.

The institution is a recognized center for research under Anna University for Ph.D., and M.S., programs. All the departments have well qualified faculty members and excellent infrastructure facilities. In addition to that, the department of GCE Salem is equipped with excellent computer facilities and Internet Connectivity. The college hostel has separate blocks for the First, Second, Third and Final year B.E students and individual block for the M.E students. The blocks are also provided with the Wi-Fi access. GCE, Salem has strong tie-ups with R&D labs & Industries. The institution also has a state of the art digital library to provide technical knowledge for the students. The infrastructure of the institution also includes a magnificent

auditorium, a dispensary, spacious canteen block and a sports center. A proposal for the construction of an indoor stadium is under process.

The college, being an Autonomous institution, raises constantly itself to global standards. Apart from the 6 Under Graduate, 6 Post Graduate Programmes, and 4 Part Time Under Graduate programmes, Doctorate in Philosophy Programmes in Full Time and Part Time are also supported by the institution. In the department of Civil Engineering a total of 476 students are pursuing their Bachelor's degree. In the Department of Mechanical Engineering has a total strength of 454 students. The Department of Electrical and Electronics Engineering has the student strength of 225. In the Department of Electronics and Communication Engineering the number of students in B.E is 219. Computer Science and Engineering has a total of 239 Under Graduate students and in the department of Metallurgical Engineering the students in Bachelor of Engineering are 240. Apart from the Bachelors Degree stream, the institution also has to its strength of 28 students in M.E Structural Engineering, 14 students in Computer Aided Design, 18 students in Thermal Engineering, 12 students in Welding Technology, 24 students in Power Electronics and Drives and 12 students in M.E Communication Systems. In the research stream the institution comprises a total of 11 students doing research in the Institution. One Research scholar in the department of Civil Engineering, Department of Electrical and Electronics Engineering has 5 Research scholars, Mechanical Engineering Department has 4 Research scholars, Department of Electronics and Communication Engineering has 1 Research scholar Thus, the grand total of the students' strength of the institution is 1962.

Our Institute serve as mentor institute for Government Engineering College Raipur under TEQIP III. Various collaborative activities for faculties and students development programme in various domain were carried out. Few of the activities in core domain for the development of durability measuring apparatus Instrument as per procedures of IS code and Design and development of solar, wind biogas and energy storage based hybrid energy generation system with proper control and energy management.

The industrial experts frequently interact with the institution for making the students industry-ready, GCE, Salem is thus growing from strength to strength and earning recognition for its contribution to the cause of Engineering Education. GCE, Salem is also one of the participating institutions in Quality Enhancement in Engineering, Education (QEEE) programme offered by Department of Higher Education, MHRD, and Government of India In U.G., NBA accreditation has been obtained for the Electrical and Electronics Engineering Programme up to 2022. Our college has been accredited by National Assessment and Accreditation Council

(NAAC) in the academic year 2018 — 19 with a B” grade and is valid up to November 2023. Based on the NAAC outcome, the Autonomy status granted to the Institution has been extended for 6 more years by the UGC. Our Institution is a recognized QIP centre for research in Civil, Mechanical and EEE departments and also continuing as Research Centre for Anna University, Chennai. The Institution is also vested with the additional responsibility of acting as Zonal Office VIII for Anna University, Chennai.

The six departments of the institution are recognized for their commitment and are appreciated for their achievement during the celebration of Republic day every year. The department of Civil Engineering has record breaking revenue generation through Testing and Consultancy services. The department of Mechanical Engineering on the other hand, has signed many MoUs to facilitate better Institute-Industry-Interaction. The department of Electrical and Electronics Engineering has contributed towards conservation of electrical energy and energy auditing. The department of Metallurgical Engineering has an industrial linkage with JSW that proves pivotal for the placement and the department of Electronics and Communication Engineering is providing uninterrupted internet service across the Institute. The youngest department — the Computer Science and Engineering maintains up-to-date Institute website and produces 100% student placement every year.

The institution has an intellectually strong team of faculty members supporting the growth of our college and students, their steadfast effort in coping up the dynamic markets has resulted in 44 Faculty members achieving Ph.D, degree, 2 faculty members having submitted their thesis during the academic year 2019 -2020 and 30% of faculty members are pursuing their Ph.D research programme.

To encourage the faculty members in research and development and to appreciate their innovations and findings, under TEQIP - R & D head, an incentive of Rs. 3000/- is given for every paper published by a faculty in peer reviewed journals. Our Faculty members are endowed in various training and workshop courses to update their subject knowledge, pedagogical and management capacity building skills. Faculty members from various departments have published patents and they obtained the funded projects and research awards from National and International Research bodies.

The institution, under TEQIP Phase III, is funded Rs, 7 Crores to further improve its own infrastructure and teaching-learning activities. Major equipment were procured for around Rs. 6,26,88,142 by Mechanical, Electronics and Communication

Engineering, and Metallurgy department under TEQIP. In year 2019-20, through TEQIP funding, a total of 352 students underwent internships at various reputed firms.

In the academic year 2019-2020 a total of 20 programmes and workshops were organized by the institution for student development on multiple job opportunities. Similarly 5 programmes were conducted for the development of the faculty members. Regular online academic courses are conducted for the students of all branches through NPTEL, Students have been benefited from 22 different courses offered through Anna University Edusat. The institute conducts regular yoga classes for faculties and students for their physical and mental well-being.

The institution in the academic year 2019-20 has added several prestigious organizations to the list of recruiters. A total of 262 students participated and took the recruitment exams conducted by 25 companies including Accenture, Zoho, TCS and Infosys. A good number of 170 students were placed through campus recruitment with an overall placement percentage as 64.88%. The institution has a good relationship with various top companies. The institution has signed MOUs with Infosys, Bangalore under its Campus Connect and Deep Dive Programmes, Frontline Electronics - Chennai, SAIL - Salem, JSW- Salem, Tata Consultancy Services - Chennai and Aerospace Engineering Pvt. Ltd. - Salem to ensure students employability. The institution's strong association with more than 40 industries continues to allow our students to undertake projects, training, internships and visits in these organizations. Eminent speakers from IITs, Nils, P&G and similar institutions were invited to address the students on subject domains and skill enhancement.

In the National level 'Internal Hackathon 2020, Two teams from the college has been selected for the Final round in the Hardware section. The teams of six students each participated under the sections 'Delivery of Essential Medicines' and 'Economical Fertilizers' organized by 'Ministry of Family Welfare' and 'Swachh Gaanv' respectively. In addition to that 5 more teams of the institution in the Software category of the Hackathon are in to the finals. The section includes 'Portal for Formers', Case Helper', 'Virtual Police Station', 'Student Grievance System' and 'Alumni Tracking System'. They are organized by 'CDK Global', 'Dr.B R Ambedkar Institute of Technology', 'Government of Madhya Pradesh', 'Government of Andhra Pradesh' and the 'Government of Goa' respectively.

In 2020 two students of the institution, one from the Department of Civil Engineering and one from Electronic and Communication Engineering, cleared GATE exam. A team of students from the institution played a major role in the development of software for the 'Tamilnadu Polytechnic Admission' in 2020. The ICC activities of the college includes participation of 84 students in 'Entrepreneurship & Innovation as

career opportunity' and a total of 100 member in 'My Story – Motivational Session by Successful Innovator / Startup Founder'.

The Institution lays stress not only on the academic development but on their holistic development also. In 2019-20 our students recorded significant achievements in sports activities also, Our college teams have participated in all tournaments of Zone-VIII Anna University, Inter Zone Anna University and District, State and National Level Tournaments. In the academic year, our students organized blood camp through Youth Red Cross Club. The overall trophies were won from prestigious Institutions like GCT, Coimbatore, and Salem Steel Plant etc. by our students representing the institution's literary associations. Rotract club has conducted co-curricular and extra-curricular competition for school children to enrich their skills. Orphanage homes are periodically visited by Rotract and Leo club members to offer service for them. The 'Environmental and Green Campus' club of the institution took steps like providing steel tumblers and plates to all the departments there by ensuring the one time plastics are not used in the campus.